## Claims:

23. (Amended) 23. A multi-terrain amphibious vehicle comprising:

an elongated longitudinally extending chassis having a front a front end, a rear end, a left side, a right side, a center line, a bottom surface and a top surface;

at least two left side propulsion units and at least two right side propulsion units; said left side propulsion units being longitudinally spaced from each other; said right side propulsion units being longitudinally spaced from each other; each of said left side propulsion units and said right side propulsion units comprising:

- (a) a support means for each of said propulsion units on said bottom surface of said chassis comprising: a pair of laterally spaced longitudinally extending framework members secured to said bottom surface of said chassis; one of said frame work members being an inside framework member and said other framework member being an outside framework member; said framework members being spaced from each other a distance greater than the width of said propulsion unit;
  - (b) a driven axle having an inner end, an outer end and a Y-axis,
- c) first support means connected to said chassis for supporting said inner end of said driven axle,
- (d) second support means connected to said chassis for supporting said outer end of said driven axle,
- (e) at least two cam-shaped wheels mounted on said driven axle; each cam-shaped wheel having a rotation axis that coincides with said Y-axis of said driven axle; each cam-shaped wheel having a first perimeter segment having a mid-point, a second perimeter segment having a mid-point and a third perimeter segment having a mid-point; said first perimeter segment having a substantially arcuate contour and said mid-point of said first perimeter segment extends radially farther from said rotation axis than said mid-points of said second and third perimeter sections;
- (f) each of said propulsion units having an elongated outside axle support arm having a top end and a bottom end; a transversely extending outside pivot pin having an inner end and an outer end; said inner end being and an outer end; said inner end being rigidly secured to said outside axle support arm adjacent said top end of said outside axle support arm; said outer end of said

outside pivot pin being journaled in a bearing attached to said outside framework member; said bottom end of said outside axle support arm having a bearing attached thereto in which said outer end of said driven axle is journaled; (g) each of said propulsion units having an elongated inside axle support arm having a top end and a bottom end; a transversely extending driveshaft having an inner end and an outer end; an inside sprocket gear is rigidly mounted on said driveshaft adjacent said inner end, said driveshaft is journaled in a bearing attached to said inside framework member with said outer end having a top end sprocket gear rigidly secured thereto; said bottom end of said inside axle support arm having a bearing attached thereto in which said inner end of said driven axle is journaled; a bottom end sprocket gear is rigidly secured to said drive axle of said propulsion unit and said bottom end sprocket gear is in vertical alignment with said top sprocket gear and a chain passes around said respective top end and bottom end sprocket gears; drive power means mounted on said chassis; and power transmission means connecting said drive power means to said driven axle of said respective left and right side propulsion units. Respectfully submitted, C. Logar & CHARLES C. LOGAN II, No.: 25256 8282 UNIVERSITY AVENUE LA MESA, CA 91941 619/463-1675

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